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Downing, A.R.; Greenberg, I.B.; Lunt, T.F.;
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15 **TCB subsets: the next step**
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ACM Transactions on Information and System Security (TISSEC) February 2001
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> A real-time knowledge-based network intrusion-detection model for a link-state routing
> protocol is presented for the OSPF protocol. This model includes three layers: a data
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> finite state machine to express the real-time behavior of the protocol engine and to ...

2 Intrusion detection techniques for mobile wireless networks   80%
Yongguang Zhang , Wenke Lee , Yi-An Huang
Wireless Networks September 2003
Volume 9 Issue 5
> The rapid proliferation of wireless networks and mobile computing applications has
> changed the landscape of network security. The traditional way of protecting networks
> with firewalls and encryption software is no longer sufficient and effective. We need to
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3 Securing information: Guarding the next Internet frontier: countering   80%
denial of information attacks
Mustaque Ahamad , Leo Mark , Wenke Lee , Edward Omicienski , Andre dos Santos , Ling
Liu , Calton Pu
Proceedings of the 2002 workshop on New security paradigms September 2002
> As applications enabled by the Internet become information rich, ensuring access to
> quality information in the presence of potentially malicious entities will be a major
> challenge. Denial of information (DoI) attacks attempt to degrade the quality of
> information by deliberately introducing noise that appears to be useful information. The

mere availability of information is insufficient if the user must find a needle in a
haystack of noise that is created by an adversary to hide critical informat ...

4 A framework for constructing features and models for intrusion detection 80%
systems
Wenke Lee , Salvatore J. Stolfo
ACM Transactions on Information and System Security (TISSEC) November 2000
Volume 3 Issue 4

Intrusion detection (ID) is an important component of infrastructure protection
mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and
extensible. Given these requirements and the complexities of today's network
environments, we need a more systematic and automated IDS development process
rather that the pure knowledge encoding and engineering approaches. This article
describes a novel framework, MADAM ID, for Mining Audit Data for Automated Models
for Instrusion ...

5 Intrusion detection in wireless ad-hoc networks   80%
Yongguang Zhang , Wenke Lee
**Proceedings of the 6th annual international conference on Mobile computing and
networking** August 2000

As the recent denial-of-service attacks on several major Internet sites have shown us,
no open computer network is immune from intrusions. The wireless ad-hoc network is
particularly vulnerable due to its features of open medium, dynamic changing topology,
cooperative algorithms, lack of centralized monitoring and management point, and lack
of a clear line of defense. Many of the intrusion detection techniques developed on a
fixed wired network are not applicable in this new environment. Ho ...

6 Simple, state-based approaches to program-based anomaly detection   80%
C. C. Michael , Anup Ghosh
ACM Transactions on Information and System Security (TISSEC) August 2002
Volume 5 Issue 3

This article describes variants of two state-based intrusion detection algorithms from
Michael and Ghosh [2000] and Ghosh et al. [2000], and gives experimental results on
their performance. The algorithms detect anomalies in execution audit data. One is a
simply constructed finite-state machine, and the other two monitor statistical
deviations from normal program behavior. The performance of these algorithms is
evaluated as a function of the amount of available training data, and they are
compar ...

7 Network security and intrusion detection: A methodology to detect   77%
temporal regularities in user behavior for anomaly detection
Alexandr Seleznyov
**Proceedings of the 16th international conference on Information security:
Trusted information: the new decade challenge** June 2001

Network security, and intrusion detection in particular, represents an area of increased
in security community over last several years. However, the majority of work in this
area has been concentrated upon implementation of misuse detection systems for
intrusion patterns monitoring among network traffic. In anomaly detection the
classification was mainly based on statistical or sequential analysis of data often
neglect ion temporal events' information as well as existing relations between them. ...

8 Computer security past and future   77%

Diana Moore , Michael Neuman
Crossroads April 1996
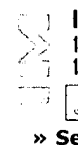Volume 2 Issue 4

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4 **Real time data mining-based intrusion detection**
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2 **Non-intrusive concurrent error detection in FSMs through state/out
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